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family *Partulidæ*, which has been published in the *MANUAL OF CONCHOLOGY*.

Very large accessions of the mollusca of Louisiana and southeastern Arkansas we owe to Mr. Clarence B. Moore. Mr. Stewardson Brown has further augmented the series from Bermuda, and the study of Arizona snails collected by J. H. Ferriss and the Curator has nearly reached completion; reports thereon are now in course of publication by the Academy.

The shells collected by Mr. A. A. Hinkley in Mexico have been determined, and the new forms described in several papers.

Mr. John B. Henderson, Jr., has contributed a series of Cuban shells collected this year, and Dr. Arnold Ortmann gave a set of western Pennsylvania freshwater mussels, especially valuable on account of the rapid destruction of the faunas of these streams by mine water. A large series of mollusks from Tonkin has been purchased, in order to afford material for comparison with those of China, Korea and Japan, which the Curator is working upon.

Accessions hardly less valuable have been received from many correspondents of the Department, as noted in the *Additions to the Museum*.

H. A. PILSBRY,  
*Special Curator, Dept. of Mollusca.*

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## REPORTS OF SECTIONS.

### BIOLOGICAL AND MICROSCOPICAL SECTION.

The Section has held nine regular meetings during the year, with an average attendance of nine members. Ten informal meetings have also been held.

The Conservator reports the donation of six boxes of slides from the estate of the late Dr. Henry C. Chapman.

The work of the year consisted chiefly in the exhibition and description of mounted slides and material by each member present, and in the exchange of specimens for mounting, among which may be mentioned a valuable series of about seventy rare minerals in microscopic crystals distributed by Mr. Keeley.

Among the papers presented are the following: "Microscopical Image Formation," by Mr. F. J. Keeley, published in the *PROCEEDINGS*; "The Hookworm Disease," by Dr. T. S. Stewart.

Mr. Palmer described a new form of *Pinnularia* which he has named *Pinnularia socialis*, found in groups of four.

Mr. Van Sickle devised a new form of opaque mounting slide, and, at the request of members, several thousand were manufactured from his design for general use.

Mr. Shulze discovered several new forms of *Diatomaceæ* in the Barbadoes deposit, one of which has been named and described by Mr. Boyer in the PROCEEDINGS.

Mr. Schumo presented various specimens and gave a talk on Mosses, illustrated with lantern slides.

Communications were also made by Mr. Bilgram on *Myxomycetes*; Dr. Owen, on salt solutions; Mr. Davies, on various vegetable preparations; Mr. Van Sickle, on the crystallization of Platinum; Mr. Boyer, on local diatoms, and by Messrs. Keeley, Rothermel, Ray and other members, on miscellaneous subjects.

An increased interest is apparent in the preparation of specimens and in the manipulation of the microscope and much original work has been accomplished during the year.

The officers for the year 1910 are as follows:

<i>Director,</i>	J. Cheston Morris, M.D.
<i>Vice-Director,</i>	T. Chalkley Palmer.
<i>Recorder,</i>	Charles S. Boyer.
<i>Corresponding Secretary,</i>	Silas L. Schumo.
<i>Treasurer,</i>	Thomas S. Stewart, M.D.
<i>Conservator,</i>	F. J. Keeley.
	CHARLES S. BOYER,

*Recorder.*

#### ENTOMOLOGICAL SECTION.

The usual meetings of this Section have been held with an average attendance of nine persons. During the year upwards of 3,000 specimens have been added to the collection. Eight new cases and 158 boxes have been purchased to accommodate the growth of the cabinet. The orders Hemiptera and Neuroptera and the family Tenthredinidæ of the order Hymenoptera have been rearranged. Part of the American Rhopalocera has been transferred to new cases. The publications of the Section have been successfully continued. One member and two associates have been elected.

At a meeting held December 23 the following officers were elected:

<i>Director,</i>	.	.	.	.	.	Philip Laurent.
<i>Vice-Director,</i>	.	.	.	.	.	H. W. Wenzel.
<i>Treasurer,</i>	.	.	.	.	.	E. T. Cresson.
<i>Secretary,</i>	.	.	.	.	.	E. T. Cresson, Jr.
<i>Conservator and Recorder,</i>	.	.	.	.	.	Henry Skinner, M.D.
<i>Publication Committee,</i>	.	.	.	.	.	E. T. Cresson,
						E. T. Cresson, Jr.

## BOTANICAL SECTION.

Early in the year the work of putting the species of flowering plants into covers was completed, which will prove not only a convenience in studying, but will also secure a decrease in the possible breakage of specimens.

The most notable addition during the year has been the Albert Commons Herbarium of Delaware plants, representing his collecting during half a century. It is probably the most complete series of the flora of the State, including not only the flowering plants and ferns, but also the lower forms, fungi, etc. The collections were presented to the Academy by Messrs. Frank W. and Howard W. Commons, of Minneapolis, Minn.

Other donations include a collection of 50 species of Bucks County, Pa., *Cratægus* from Dr. C. D. Fretz; 160 *Cratægus* and other trees and shrubs from the Arnold Arboretum; 250 specimens of plants from the eastern United States from E. B. Bartram, and smaller collections, aggregating about 150 specimens, which will be noted in detail in the *Additions to the Museum*.

The Section has purchased 500 specimens of California and Nevada plants from A. A. Heller; 40 specimens of *Cratægus* from Willard W. Eggleston and 100 Mexican mosses from C. G. Pringle.

The Conservator spent the time from May 22 to June 2 of the present year in the Bermudas, where a collection of about 250 plants was made, and, though not large in species, enabled him to determine some uncertain records, besides adding a number to the known flora of the islands. The results of this and two previous trips are embodied in a paper in the current number of the PROCEEDINGS.

The Philadelphia Botanical Club has continued to hold its meetings in the herbarium of the Academy during the year, and through the energy of its members 2,100 sheets have been added to the local collection, in the care of which Mr. Samuel S. Van Pelt has continued his valuable services as Curator.

Acknowledgment is made of the services of Miss Ada Allen as assistant in the herbarium during the year.

At the annual meeting of the Section the following were elected as officers for the coming year:

<i>Director,</i>	.	.	.	.	.	Benjamin H. Smith.
<i>Vice-Director,</i>	.	.	.	.	.	Joseph Crawford.
<i>Secretary and Recorder,</i>	.	.	.	.	.	Charles S. Williamson.
<i>Treasurer and Conservator,</i>	.	.	.	.	.	Stewardson Brown.

Respectfully submitted,  
STEWARDSON BROWN,  
*Conservator.*

#### THE MINERALOGICAL AND GEOLOGICAL SECTION.

The Section held seven meetings in 1909, with an average attendance of six. Communications were made by Prof. O. C. S. Carter, on earthquakes; Dr. E. T. Wherry, on fossil plants at Holicong, Bucks County, with a report on them by Dr. David White; Mr. T. C. Palmer, on minute beryls at Avondale, Delaware County; B. S. Lyman, on the need of instrumental surveying in practical geology, and on advantages of not exaggerating the vertical scale in geological cross-sections; Col. Joseph Willcox, on fossil elephants, Glyptodon, manatee and horses in Florida; Mr. F. J. Keeley, on asteriated sapphire from Ceylon; Miss E. Walter, on sub-fossil Sequoia in San Francisco.

The Section also met in conjunction with the Academy on the evening of May 18th, and made through its members three communications to the meeting.

There were six field excursions of the Section, with an average attendance of about 29. On all the excursions, except the third, the parties visited crystalline rocks and their minerals, namely: (1) Between Woodlane and Ardmore, Montgomery County; (2) between Elwyn and Newtown Square, Delaware County; (3) New Red rocks and trapdikes, between Camp Hill and Three Tuns, Montgomery County; (4) near Moylan, Strath Haven, Avondale and Crum Creek, Delaware County; (5) near Cynwyd, Mill Creek and Bryn Mawr, Montgomery County; (6) near Glen Mills, Lenni, Chester County, and Blackhorse, Delaware County.

Besides the meetings and excursions of the Section, there was, by its invitation, a numerously attended meeting of geologists of the northeastern part of the United States held at the Academy on the afternoon and evening of April 23d, at which six highly valuable communications were read, followed, the next day, by a very profitable field excursion of 23 participants, under the guidance of Prof. Bascom,

to typical places of pre-Cambrian and early Paleozoic rocks, from Lafayette up the Schuylkill to Norristown, and thence to Henderson, Gulf Mills and Bryn Mawr.

The membership of the Section has increased during the year by three associate members. The field excursions lead to joining it as associate members; and sometimes immediately, or later through interest in the meetings, to becoming members of the Academy. The full membership is now 25 members and 15 associate members, 40 in all.

The following officers of the Section have been elected for the year 1910:

<i>Director,</i>	.	.	.	.	.	Benjamin Smith Lyman.
<i>Vice-Director,</i>	.	.	.	.	.	Frank J. Keeley.
<i>Recorder and Secretary,</i>	.	.	.	.	.	Silas L. Schumo.
<i>Treasurer and Conservator,</i>	.	.	.	.	.	George Vaux, Jr.

Respectfully submitted by order of the Section.

BENJAMIN SMITH LYMAN,

*Director.*

#### ORNITHOLOGICAL SECTION.

Work in the Ornithological department has been seriously hampered during the past year by the alterations to the top floor of the Museum, which necessitated the disarrangement of most of the cases for nearly six months, while the demands upon the Conservator's time in looking after other departments of the Museum and the absence of Mr. Rehn in the West also interfered with the work of the department.

The cases have now, however, been permanently placed, all the drawers examined and the specimens arranged, while the rooms have been thoroughly cleaned.

The remainder of the Tristram and Porter collections, comprising several thousand skins, have been systematically distributed, and the Van der Pol collection has been catalogued, while the *Limnicolæ* or shore birds have been critically studied, reidentified and arranged in standard metal cases.

It was found necessary to remove a large part of the exhibition series from the cases, so as to permit of the cleansing of both specimens and cases. A portion of this work has been accomplished, and one new exhibition case secured. For the study collection of skins ten additional metal and four large wooden cases were procured, which enables us for the first time to place the entire study series in

standard cases. A number of valuable additions to the collection have been made during the year, the most important being the Clemens specimens from Mindanao, Philippine Islands.

The Delaware Valley Ornithological Club and the Pennsylvania Audubon Society have held their meetings in the Ornithological rooms during the year, and have done much to further the interests of the department. To Mr. J. A. G. Rehn the Conservator is indebted for valuable assistance in labelling and cataloguing.

The officers elected at the annual meeting, December 2, 1909, are:

<i>Director,</i>	Spencer Trotter, M.D.
<i>Vice-Director,</i>	George Spencer Morris.
<i>Corresponding Secretary,</i>	William A. Shryock.
<i>Recorder,</i>	Stewardson Brown.
<i>Conservator and Treasurer,</i>	Witmer Stone.

WITMER STONE,  
*Conservator.*

The annual election of Officers, Councillors and Members of the Committee on Accounts to serve during 1910 was held, with the following result:

PRESIDENT,	Samuel G. Dixon, M.D., LL.D.
VICE-PRESIDENTS,	Arthur Erwin Brown, Sc.D., Edwin G. Conklin, Ph.D., Sc.D.
RECORDING SECRETARY,	Edward J. Nolan, M.D.
CORRESPONDING SECRETARY,	J. Percy Moore, Ph.D.
TREASURER,	George Vaux, Jr.
LIBRARIAN,	Edward J. Nolan, M.D.
CURATORS,	Arthur Erwin Brown, Sc. D., Samuel G. Dixon, M.D., LL.D., Henry A. Pilsbry, Sc.D., Witmer Stone.
COUNCILLORS TO SERVE THREE YEARS,	Philip P. Calvert, Ph. D., Thomas Biddle, M.D., Frederick Prime, Frank J. Keeley.
COMMITTEE ON ACCOUNTS,	Charles Morris, Samuel N. Rhoads, John G. Rothermel, Thomas H. Montgomery, Ph.D., Frank J. Keeley.